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Jul 8, 1992

DERWENT-APP-NO: 1990-279866

DERWENT-WEEK: 19904

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TITLE: (Meth)acrylate compns. with low smell, useful for paint - prepd. by epoxidising with oxidants in presence of polymerisation inhibitors including molecular oxygen

PATENT-ASSIGNEE:

ASSIGNEE

CODE

DAICEL CHEM IND LTD

DAIL

PRIORITY-DATA: 1990JP-0310255 (November 22, 1990)

PATENT-FAMILY:

PUB-NO	PUB DATE	LANGUAGE	PAGES	MAIN-IPC
JP 04189810 A	July 8, 1991		016	C08F299/04
JP 2041144 B2	August 25, 1992		017	C07C069/652

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 04189810A	November 22, 1990	1990JP-0310255	
JP 2041144B2	November 22, 1990	1990JP-0310255	
JP 2041144B2		JP 4189810	Previous Publ.

INT-CL (IPC): C07C 17/08; C07C 61/669; C08F 299/04

ABSTRACTED PUB-NO: JP 04189810A

EASIS ABSTRACT:

(Meth)acrylate compns. comprising cpds. of formula (I) are new, where R = H or CH₃; Ra, Rb = H, CH₃ or ethyl gr.; n = an integer of 4-8; m = an integer of 1-10.

The (meth)acrylate compns. are produced by reacting (1) compns. comprising cpds. of formula (III) with (2) (meth)acrylic acid in the presence of catalyst. The cpds. of formula (I) are prod. of formula (II). (Meth)acrylate compns. comprise cpds. of formula (IV), partly, formula (V). (Meth)acrylate compns. comprising cpds. of formula (IV) are produced by epoxidising the (meth)acrylate compns. comprising cpds. of formula (I) with oxidants in the presence of polymerisation inhibitors consisting of molecular oxygen-contg. gases and at least one cpd. selected from each group of (A) and (B). (A) are hydroquinone, hydroquinonemonoethyl ether, p-benzoquinone, cresol, t-butylcatechol, 2,4-dimethyl-6-tert-butylphenol, 2-tert-butyl-4-methoxyphenol, 2-tert-butyl-4-methoxycresol, 2,6-di-tert-butyl p-cresol, 2,3-dihydroxy p-quinone, piperidine, ethanolamine, alpha-nitrosobeta-naphthol, diphenylamine, phenothiazine, N-nitrosophenylhydroxylamine, N,N-diethylhydroxylamine. (B) are phosphoric acid, potassium phosphate, sodium phosphate, ammonium hydrogen phosphate, pyrophosphoric acid, potassium pyrophosphate, sodium pyrophosphate, 2-ethylhexyl pyrophosphate, potassium 2-ethylhexyl pyrophosphate, sodium-2-ethylhexyl pyrophosphate, tripolyphosphoric acid, potassium tripolyphosphate, sodium tripolyphosphate.

USE/ADVANTAGE - The (meth)acrylate cpds. are used as intermediate raw material for resins for paint. The cpds. have good flexibility and low smell and skin-irritation.

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.C/D

DERWENT-CLASS: A14 G02

CPI-CODES: A01-C01; A04-B00; A12-B01G; G02-A02C4;

dip

CHOSEN-DRAWING: Dwg.C/T

TITLE-TERMS: METHO POLYACRYLATE COMPOSITION LOW SMELL USEFUL PAINT PREPARATION
EPOXIDATION OXIDANT PRESENCE POLYMERISE INHIBIT MOLECULAR OXYGEN

ADDL-INDEXING-TERMS:
METHACRYLATE!

DERWENT-CLASS A14 G02

CPI-CODES: A01-C01; A04-B09; A12-B01G; G02-A02C4;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1041U; 1090U ; 1173U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0035 0037 0042 0045 0204 0224 0226 0228 0493 0494 0498 0500 0501 0505 0508
0599 0603 1170 1171 1175 1282 1630 1631 1635 2065 2072 2177 2182 2189 2192 2200 2201
2674 2675 2792

Multipunch Codes: 014 02& 03& 034 06- 074 075 076 077 081 085 09- 10& 130 133 15- 160
226 228 239 263 298 335 336 343 360 37- 402 404 44& 525 527 58- 62- 650 688 720 723

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-124157